

GOAL OF \$3100 IS SET BY THE T.C.A. FOR THIS YEAR

FRATERNITIES AND DORMS START BALL ROLLING TONIGHT

Student Body Will Then Keep
It In Motion For Whole
Week Till Oct. 7

SEEK CASH, NOT PLEDGES

Solicitation in the T. C. A. drive will start tonight at 6 o'clock in fraternities and dormitories when chosen fraternity representatives exchange houses to give "pep" talks. A picked Dormitory Committee will canvass in the dormitories of each hall. Solicitation of the student body at large in this drive for \$3,100 will start tomorrow morning, and will continue until 6 o'clock Friday night.

As usual, each donor will receive a Cardinal and Gray button and a receipt, which will be similar to those used last year. However, the receipt contains in addition a clause stating that it may be exchanged at the T. C. A. office for a ticket stating the amount contributed, and this in turn will be accepted at its face value toward the \$3 basic membership of the Cambridge Y. M. C. A. or the \$5 basic membership of the Boston Y. M. C. A.

"Give Till It Hurts"

The student body will be solicited by 25 free lances and the new freshman section leaders. According to Mr. Wallace M. Ross, Secretary of the Association, the motto of the campaign will be "Give till it hurts," and cash will be sought rather than pledges. Last year only \$600 was received out of a total of \$900 in pledges.

There will be an innovation this year. Awards of four "mythical cups," will be made. One each will go to the fraternity and dormitory hall having the highest total contribution, and one each to the one having the highest average contribution per man.

The progress of the drive will be indicated graphically in the Main Lobby by a series of chairs which will show the total subscribed, the amount yesterday, the amount by classes, the per cent of the total received, and the per cent subscribed by classes. The practice of showing the per cent ratings of fraternities and dormitories, which was objected to last year, will be abandoned.

Groups Meet Tonight

At 5 o'clock tonight meetings of the various solicitations groups will be held. The freshman section leaders will meet in Room 10-275, the fraternity deputies in Room 4-231, the dormitory committee in the dormitory committee room, and the free lances in the front office of the T. C. A. At the same time the T. C. A. cabinet will hold a meeting in their back office, and at that time they will make their individual contributions to the drive.

T. C. A. Undergraduate Budget For 1927-1928

Employment Bureau.....	\$500.00
Freshman Camp	500.00
Office	425.00
Conferences	350.00
Contributions	225.00
Meetings	200.00
Room Registry	200.00
Book Exchange	200.00
Freshman Advisors and Activities	100.00
Information	75.00
Entertainment and Social Exchange	75.00
Miscellaneous	75.00
Foreign Students	50.00
Deputations	50.00
Church Relations	50.00
Boys' Work	50.00
Reports	50.00
Industrial Service.....	25.00
	\$3,100.00

Alumni And Staff View Movietone Saturday Evening

Second Showing In Boston of
M. I. T. Talking Movies
At Pop Concert

Alumni and staff of the Institute will be given the opportunity to see the second Boston showing of the Movietone Talking Pictures of the Institute at an informal Pop Concert in Walker Memorial Saturday night at 8 o'clock. These are the pictures which were taken around the Institute in June and shown for the first time at Technology Alumni Convention in New York City.

Accompanying the pictures will be a Pop Concert consisting of specialty acts by undergraduates and some of the activities. The Movietone Pictures, which will be shown through the courtesy of the Fox Case Corporation, are the same ones as will be used for the All-Technology Smoker on Friday night.

These pictures include President Samuel W. Stratton with other faculty members, Coach "Bill" Haines instructing the crews, the Glee Club and Tech Show 1927 in action and other campus scenes. Advance reservations may be made by sending a check to the Alumni Association for the number of tickets desired. The price of the tickets are 50 cents apiece.

37 MEN ENTER HONOR SECTION IN ENGLISH

Will Select Their Own Studies
In Sophomore English

The following men have been accepted for the Tutorial or Honors Group in English 21, and should communicate as quickly as possible with the Professor to whom this list assigns them.

Prof. Seaver 2-277—Baldwin, R. I.; Boggs, P.; Edlund, C. F.; Holt, F. W., Jr.; Houston, D. T.; Jarosh, J. J.; Pattison, H. O.; Riley, P. J.; Robinson, H.; Stewart, W. B.; Wedemeyer, W. W.; Yelland, W. O. Prof. Rogers 2-275—Alexander, F. Jr.; Barnett, S. N.; Davis, K. L.; Gorton, D. W.; Heggie, R.; Larrivee, J. A.; Johnson, H. F.; Shaffer, M.; Synder, R. N.; Tillin-ghast, J.; Wells, D. Q. Prof. Roberts 2-281—Bowen, J. G.; Finn, S.; Karel, S. L.; Leighton, J. A.; Lutz, C. H.; MacLaren, T. S.; Martel, W. H.; Mong, O.; O'Shea, N. F.; Reynolds, R. W.; Sanders, R.; Small, C. H.; Stevens, J. R.

These men, under the new system which is being tried out at Technology, will map out their own courses of study in Sophomore English, choosing those subjects which are of most personal interest to them. The range of subjects to which they are limited include history, the fine arts, philosophy, music, and literature. Owing to the nature of the course these men will not have to attend classes, except for a weekly conference with their professor, but instead will put in more time outside of school in reading. This system gives the men the advantage of tutorial system which is used by the leading British colleges.

RADIO SOCIETY TO ORGANIZE FOR YEAR

In a short time the Institute Radio Station will be on the air again. It will continue to hold standard frequency tests in co-operation with the Bureau of Standards, and to transmit, free of charge, any message, to any place, for any Tech student. Operators are needed to operate the 40, 60, and 80 meter sets, which the society maintains.

All members and newcomers are invited to attend the first meeting of the society in room 10-200, at 4 o'clock this afternoon. At this meeting, officers for the ensuing year will be elected, and new members will be enrolled. Everyone is urged to attend this meeting.

Institute Professor Is Real High Flyer

In a praiseworthy attempt to show the Institute how much a Technology professor can be up in the air outside of his classroom, it was recently made public that the Honorable Edward P. Warner '17 has seriously taken up the art of flying. And once more the dramatic appeal of aviation has won over an already ardent devotee to the practical side of the science.

Professor Warner, head of the Aeronautical Department and at present Assistant Secretary of the Navy in Charge of Aviation, is now at Anacostia, D. C., Naval Air Station and hopes to qualify soon as a licensed pilot. Though he has often been a passenger and has operated the controls at various times, he has yet to make his first solo flight.

NEW ENGLAND MUST DEVELOP AIRPORTS

Warner Among Speakers Before
New England Council
At Statler

Upon New England's development of her present flying fields and airports depends her future in the aviation industry, declared speakers at the first aviation conference held under the auspices of the New England Council at the Hotel Statler Friday.

Most of the airplane factories today have established themselves in the Middle West because of the availability of landing fields everywhere and the resulting large volume of air travel on which production depends for observation of and improvements in aircraft. New England is ill-favored by nature as a country for flying fields, but it can, nevertheless, establish a sufficient number of fields to make flying here comparatively general. With these fields established, natural advantages of water-power, skilled labor supply, and efficiency of industrial methods, will secure a greater share of aircraft production.

The conference was presided over by Dudley Harmon of the New England Council. The afternoon session opened just after two at the Statler. Assistant Secretary of the Navy Edward P. Warner and President John F. O'Ryan of Colonial Air Transport, Inc., spoke at the dinner at 6:30.

PROFESSOR ENGAGED IN RESEARCH WORK

Professor Myron W. Dole '04, of the Department of Mechanical Engineering, has been granted an extended leave of absence from the Institute in order that he may complete research work undertaken for the Boston and Maine railroad. This work is expected to keep him engaged for the month of October, at which time he will probably be able to resume charge of his classes.

Over \$500,000 Received by Institute Since July 1, as Payment of Bequests

Daniel Guggenheim Founda-
tion Heads List of Large
Contributors

Over \$500,000 has been received by the Institute in the form of payments on bequests since July 1, it was announced by Horace S. Ford, Bursar. These have for the most part been for definite purposes, and are being used to finance the extensive building program going on at the present time.

By far the largest donation has been that of the Daniel Guggenheim Foundation for Aeronautics. This organization has contributed \$230,000 to pay for the construction of the new Aeronautical Building which is being built on the Massachusetts Avenue side of the grounds. This is but one of the many ways in which the Foundation is furthering aviation, the most popular of which was the sending of Colonel Lindbergh on a barnstorming tour through the country.

Contributions for the Homberg Memorial Infirmary have been received from several of those who have pledged money to the building fund. Outstanding among these has been the

MAGIC MOVIE TONE BIGGEST FEATURE OF SMOKER FRIDAY

Hardy Talks To
Movie Engineers
At Lake Placid

"Simultaneous Visible Action
And Audible Words" Still
Needs Improvement

Professor Arthur C. Hardy '18 of the Department of Physics has just returned from Lake Placid, where he spoke at a meeting of the Society of Motion Picture Engineers on the subject of "Tone Reproduction in the Photographic Recording of Sound."

This subject is of considerable interest at the present time. Attempts are now being made by several concerns to improve the talking motion picture. As long ago as 1888 an attempt was made to reproduce simultaneously visible action and audible words. No system has so far been entirely satisfactory, due principally to the fact that the quality of the reproduction was very poor.

Much of the distortion present in talking films has been traced to the photographic phase of the problem, and it is here that sensitometric equipment and methods are useful. The Institute has one of the few laboratories in the world and probably the only laboratory in an educational institution that possesses these photographic facilities. Professor Hardy is in charge of the courses in photography and applied optics.

TECHNIQUE STARTS BOARD COMPETITION

Junior Board Needs Features
And Photographic Editors

Technique, the year-book of the Institute has announced that the formal opening of its Junior Board Competition will be made this afternoon at five o'clock in its office on the third floor of Walker. Two vacancies will be filled in this competition. They are the position of Photographic Editor and Features Editor. Those who are elected to the Junior Board will be in direct succession for positions on the Senior Managing Board in a year, it was announced.

All new men and those who last year signified their intention of working on the year-book are invited to attend this meeting. Men who are already on the staff will of course attend also. It was also stated that the length of the competition was indefinite, the idea being to continue the contest until two men can be found who excel by far any of the other contestants.

FAMILIAR SCENES,
SOUNDS WILL BE
SEEN AND HEARD

Swartz Medal to be Presented
To Best Athletic Manager
Of Past Year

HAVE FIELD DAY MOVIES

It has been definitely announced by the committee in charge that "Movie Tone" talking pictures, produced by Fox-Case Corporation, of the activities and faculty will be a feature in the program of the All Technology smoker which will take place in the Main Dining Hall of Walker Memorial on Friday evening. The smoker committee had been endeavoring to secure these for a considerable time.

Apparatus Installed

Now that they have been obtained, complete Movie Tone apparatus will be installed in Walker Memorial so that the words as well as the pictures may be reproduced. These reels, which were taken for the Technology Alumni convention held in New York last spring, include President Samuel W. Stratton, other faculty members, Coach Haines instructing the crews, the Glee Club and Tech Show 1927 in action, and several familiar campus scenes. Besides these pictures, there will be movies of last year's Field Day.

Tickets for the free supper will be distributed to all members of the freshman class through the section leaders. Transfers may obtain their tickets either in the Main Lobby between the hours of 12 and 1 on Wednesday, Thursday or Friday, or else in the lobby of Walker Memorial on Friday evening immediately before the supper. The meal is scheduled for 6 o'clock, but upper-classmen will not be admitted to the smoker until 7:30.

Vaudeville Program

Free smokes will be distributed liberally at different times during the program, and as usual there will be several acts of vaudeville. The nature of the latter has not been definitely decided upon as yet, but will be announced shortly.

The Technique Cub, which is given to the track man who is still attending. (Continued on Page 4)

PROFESSORS SPEAK AT N. Y. EXPOSITION

Professor Charles E. Locke '96 of the Mining Engineering Department and Professor William H. McAdams '17 of the Chemical Engineering Department of the Institute were among the principal speakers at the Eleventh Exposition of the Chemical Industries held in New York City last week. The exposition was a students' course on the Fundamentals of Chemical Engineering and Industrial Chemical Practice.

Professor Locke spoke on the crushing, grinding, and grading processes in the disintegration of ores. Professor McAdams' subject was separation with phase change including the evaporation, distillation and drying processes as well as the theory. Among the other speakers were William B. Spooner '84, who spoke on the handling of material, and Paul V. Faragher '13, who described the uses of nonferrous metals and alloys in construction.

CALENDAR

Monday, October 3
3:00—Meeting of Radio Society, Room 10-200.
Election of freshman section leaders.
Tuesday, October 4
Annual T. C. A. drive.
5:00—Musical Clubs mass meeting, Room 10-250.
8:00—Menorah Society meeting, North Hall, Walker Memorial.
Friday, October 7
6:00—Free supper for all freshmen and transfers. Main Hall, Walker Memorial.
7:30—All-Technology smoker, Main Hall, Walker Memorial.

A Record of
Continuous
News Service
for 46 years



Official News
Organ of the
Undergraduates
of M. I. T.

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LISTEN, YE NEOPHYTES

YOU have come to our portals stricken with ignorance, and pleaded for wisdom. We have received you with open arms; the freshman rules in one hand and the slide rule in the other. The freshman rules were your entrance conditions and on entering you pledged yourself to obey them. The rules have been purposely worded in a very childish and simple manner so that any youngster could understand them to the iota. Still, you have not been able to completely apprehend them. The first week has passed and you as a class have by no means shown a spirit of cooperation.

Your upperclassmen are not accustomed to hazing, but strange enough they display great skill in that art when necessity demands it. So bear that in mind. Furthermore, the rules that you are to follow so diligently are not the foolish and humiliating affairs, that unfortunately, have become traditions in other institutions; on the other hand, they have been inaugurated to benefit you. Probably you will not appreciate this latter statement until Field Day, when knowing your classmates is of vital importance. That is what your Cardinal and Grey ties do for you. And there should be no question in your mind as to the benefits of the "Hello" rule, which you have so shamefully forgotten most of the time.

We strongly advise that you heed the writing on the wall before you anger the mighty Sophomores, who have secretly been entrusted with the grave responsibility of your manners and activities during your first year.

To watch the members of the class of 1931 one would think that they were cursed with an over-dose of bashfulness. We have noticed that a great number of freshmen take one fleeting glance at an approaching upperclassman and then avert their eyes to the nearest inanimate object in the hope of sneaking past. This state of affairs may continue to exist for a few days, but soon the fury of three upper classes will be stirred up sufficiently and curative measures will be applied to this condition of bashfulness.

ARE REQUESTS EFFECTIVE?

DID willingness to heed a polite request pass out with the Victorian Era? The new spirit of independence in the youth of today at times seems to have eclipsed any such willingness, no matter how reasonable the request and no matter the person who asks it.

The person who has given more to M. I. T. than any other person, George Eastman, asked that there be no smoking in the corridors. It was not made as a demand or as a condition of one of his gifts but as a polite request and in the same spirit the Faculty and the Institute Committee have passed on the request to the students through the signs posted in the corridors. Although everyone has seen those signs at sometime or other, probably not everyone realizes that they are really the request of the man who has made the Institute as it is today possible for them. The man to whom Technology owes so many of its advantages surely has the right to demand that we undergraduates do not clutter the floors with cigarette butts, but instead he has only requested it as a favor. However, from such a person a simple and reasonable request, as this one is, should have the strength of an authoritative command. The request surely is reasonable for it imposes no great hardship on anybody and tends to improve greatly the appearance of the corridors.

Does "this new freedom of youth" necessarily make us so that the only requests that affect us are the ones which have a threat of punishment or a fine attached. If so, then perhaps after all "the good old days" had at least one claim to superiority over our "enlightened freedom," for in a place such as Technology where so few restrictions are placed on the student body, it would seem to be only proper sporting spirit to comply with the few simple requests that are made.

Volume XLVII of THE TECH regrets to announce the resignation of Richard H. Blair '29, Features Editor; Donald M. Sturznickel '28, Advertising Department; and Russel M. Swain '29, Advertising Department.

FRESHMAN NUMBER OF VOO DOO WILL APPEAR TUESDAY

The Class of 1931 will experience their first contact with Phosphorous tomorrow. For the benefit of those who have not already heard of Phosphorous we will explain that the animal so called is a very mysterious dirty looking black cat who is credited with all the bum humor which appears in the columns of our Technology comic, which is nicknamed Voo Doo for no good reason at all.

This first number of Voo Doo is called a "Freshman Number" and as such it contains page after page of advice designed for the enlightenment of the members of the entering class. The cover of the issue pictures a very dumb looking freshman looking ahead with mouth open to the mysteries of Technology. It is by far the most colorful cover that Voo Doo has attempted for some time and we suspect that the cat is a little worried over the printing costs of such a page.

Between the Front cover and the Arrow Collar advertisement on the back page there is an unusually good assortment of art work of which our friend the cat ought to be justly proud. The most outstanding drawings are credited to Seron, Markham, Holt and Hammond. We notice that "Babe" French is back with the Voo Doo boys again and has a featured full page drawing. We take this opportunity to voice the curiosity of a great number of upperclassmen concerning the identity of Miss French. We believe that it is Phos' duty to his reading public to reveal the actual person who signs herself thus. A picture would be very appropriate!

If we had been looking at the "Freshman Number" through freshman eyes we believe that we would have been much more favorably impressed by some of the jokes which adorn its pages. A great number of them are built around often told tales of Technology men and as such lack originality, but we realize that the probable purpose of the issue is to so orient the entering man to the foundations upon which Voo Doo's humor is built that he may successfully follow the intricacies of its retelling in future issues.

The issue is not a long one and its pages can be read in a comparatively short time. Here and there among them are scattered some really good gems of humor, but to our mind the grade of art work in this first issue is much superior to that produced by the literary department.

AS WE SEE THE MOVIES

METROPOLITAN

The feature picture at the Metropolitan this week is "Tell it to Sweeney" featuring Chester Conklin and George Bancroft. The picture is a railroad comedy which we believe is to be classed as being above average just because of the acting alone. The type of situations used and the settings are all old to the average movie goer but the combination of Conklin and Bancroft is one which would be humorous in any situation.

Both of the characters in the picture are locomotive engineers for the L. M. & R. Railroad and their ceaseless arguments and scrapping is the basis for practically all of the humor. Chester Conklin is cast as the father of a very pretty and much sought after daughter and it is through this device that the ever present love story is introduced.

"Flyin' High" is the stage presentation which is built around Gene Rodemich's stage orchestra. The act was suggested by recent trans-oceanic flights and is quite lavishly produced. Several specialty acts are added to this portion of the program. These include a chorus girl clog dance, an accordion solo, and fast and slow speed interpretations of the Charleston.

"Kol Nidre" is introduced to the public by Martell at the organ. This song is said to be one of the greatest songs of the Jewish race and is interesting because of its peculiar walling melody and also because of the great amount of significance which is attached to it.

FENWAY

Vivacious Clara Bow in the part of Hula Calhoun keeps us entertained for an hour with her love-making and hulaing under the suns and moons of Hawaii. Clive Brook, as the good-looking, outdoor engineer, comes from London to the primitive settlement in the Islands to build an irrigation dam.

At first he is the object of a Widow Bane's experienced man hunting powers but he soon succumbs to the innocence of Hula. The fact that the square-jawed engineer has a wife in England who comes to Hawaii in the final complicates matters but the modern ease of obtaining a divorce solves this intricacy.

"The Princess of Hoboken" depicts

Professor Robert's Latest Book Is Praised in New York Times Review

AN INTRODUCTION TO AMERICAN POLITICS. By Penfield Roberts. 225 pp. New York: Harcourt, Brace & Co. \$2.25.

Meant for the average reader who has begun to think that he would like to know more about the governmental and political system of his country, this book will be useful and interesting not only for him, but also for college and high school students of the subject, while those who are already more or less informed on its theme will find in its pungent presentation of facts, problems and ideas much matter provocative of thought. The author, who is Assistant Professor of English and History in the Massachusetts Institute of Technology, has aimed to make the volume a survey of American politics that will "arouse an intelligent interest in the minds of people who have no intention of making an intensive study of the subject." It is quite clear from his pages that he thinks there is plenty of room for that kind of interest among American voters. And he has so phrased and set forth the several factors of his survey that it is fairly sure to strike many sparks of interest, or indignation, or approval from most minds that are not irreparably stupid.

Mr. Roberts' first attempt is to explain simply and clearly how the United States is governed. He takes up the structural part that political parties play in our Government and shows how they function. The President and his job, the formation and activities of Congress, the part of the Supreme Court in our system receive attention, and then he discusses the methods by which business is regulated, and describes the slack and inefficient way in which Uncle Sam carries on his own business. All this is somewhat elementary, but when he comes to the second section, with its presentation of the fundamental problems that are now pressing for solution, he treads on sensitive ground. However, in all his discussion of public opinion in this country and the factors that produce it, the nature of and the part played by conservatives and radicals, what economic radicalism is and its significance, present-day issues and the United States as a world power, he is eminently just and aims to set forth the essential factors of each question without prejudice. In the final section, where he discusses the interpretation of our American system of politics and government from the three viewpoints of history, economics and psychology, it is apparent that he

purposely aims to rouse response of some kind, whether approval or dissent perhaps does not matter, that will lead the reader to independent and searching thought.—New York Times.

Intercollegiates

University of Michigan freshmen enrollment is 200 less this year than last. In response to the question that the university's ban on automobiles might be responsible for the reduction, President C. C. Little said, "If enrollment has decreased because of the automobile restriction, I am glad of it."

Because of a limited budget, only 60 Harvard freshmen are to be permitted to enroll in the course in naval science, the commander of the corps has announced. No complaints from the freshmen class have been received yet.

Play Directory

STAGE
COLONIAL: "Pardon Me."—An apologetic musical comedy.
COPLEY: "Murray Hill."—A good comedy in its second month.
HOLLIS: "The Barker."—In its last week.
MAJESTIC: "Ned McCobb's Daughter."—Bootleggers and spinsters mixed.
PLYMOUTH: "Broadway."—Night life with murders and everything.
TREMONT: "Honeymoon Lane."—Good musical comedy with Eddie Dowling.
WILBUR: "What a Man."—In its last week.

SCREEN
FENWAY: "Hula," with Clara Bow, and "The Princess from Hoboken."
METROPOLITAN: "Tell it to Sweeney."—The first of the "Big Five" pictures.
STATE: "College."—Buster Keaton turns collegiate.

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TRACK MASS MEETING DRAWS MANY

Both Class Football Teams Under Way---Candidates Are Still Needed

Sophomore Eleven Holds Signal Practice Session Omitting Scrimmage Work

Running his men through simple formations, Joe Parks, coach of the Sophomore football team, last Friday afternoon handed out the heaviest practice session indulged in so far this season. Parks alternated with Bridge at calling signals, and five or six men took turns at the backfield positions, among them being Steele and Riley of last year's regular backfield.

About 15 men turned out for the practice, which was approximately half of the number expected. Every one who intends to go out for the team is expected to report to the coach and manager Hendricks some time this afternoon on the field, whether or not he intends to begin practice today.

Several have been reported as lost to the team for this season, among them being Pratt, star fullback a year ago, Henderson, Greenberg and Oakes, all regular ends, and Scheueren, a guard, who will be out of the lineup a week or two, due to injuries.

Regulars who have signified their intention to play this year include Byrne, captain and center, Deyarmond, Carideo and Scheueren, guards, Vanderwarker and Billings, tackles, Street and Wigglesworth, ends, and Bridge, last year's captain, Steele, Riley, McHugh, Dean and Snyder, in the backfield. About a dozen new men, all likely looking material, have reported, but most of them have not shown up for practice yet.

As the men are beginning to get into

DOCTOR ANALYZES FATIGUE FACTOR IN SPORT EVENTS

Prof. Hill of London Makes Interesting Experiment With Runners

Now we know why Pheidippides after the battle of Marathon dropped dead in the agora, after being barely able to gasp out his glad tidings. His body had accumulated an excess of lactic acid that all his panting for oxygen could not remove. So we must conclude from the remarkable experiments conducted at Cornell by Professor A. V. Hill of London—experiments which were begun years ago as part of an investigation in physiology so brilliant that it won the Nobel prize in medicine.

In his study of the fatigue mechanism that usually restrains the too ambitious spirit, Professor Hill performed miracles in delicate chemical analyses and physical tests. The lactic acid content of animal tissue was determined and its relation to fatigue established.

Heat Measured

The infinitesimal amount of heat generated in a single nerve when the brain telegraphs a command to a muscle was measured. On the track itself human speeds were recorded with an accuracy never before attained, by applying a method similar to that devised by ballistic experts to measure the velocity of a rifle bullet.

Speed is the resultant of two opposing factors. One is the amount of effort put forth and this is constant. The other is muscular friction. Races are, therefore, won either by high driving power or a low friction factor. If a sprinter has both he is likely to be a champion.

Analyzes the Spirit

Professor Hill both approves and condemns the principles adopted by coaches. Constancy of effort has always been regarded as of the utmost importance, and with this tradition Professor Hill is in accord. On the other hand, there is little justification for the much-advised sprint finish. Professor Hill's accurate timing proves that 30 yards must be covered after the pistol has cracked before full speed is attained. It is at the start that the record breaker should exert himself. If this is impossible, a high uniform speed is best. Here nature asserts herself to protect him. His glycogen, or animal starch, is converted into lactic acid, which is responsible for his fatigue and which he can remove, during a rest period, only by assimilating oxygen. A runner is constantly in arrears for oxygen. When the deficit amounts to 15 quarts he collapses, which occurs at 300 yards covered at top speed.

PLANS DISCUSSED FOR CLASS FIELD DAY RELAY RACES

Cross Country Candidates Are Urged to Report For Practice Today

OVER 50 ATTEND MEETING

Fifty enthusiastic track candidates gathered at the hangar gym Friday afternoon and manifested an interest which augurs well for the future of the sport at the Institute this year. Coach Oscar Hedlund emphasized the benefits to be derived from track and Pete Kirwin, cross country captain, Charley Denny, manager of cross country, and Art Marlow, manager of track, added a few words of wisdom.

As of old, the coach's cry is for more men. Contrary to the beliefs of most people, track is a sport in which natural ability is not essential. Coach Hedlund guarantees that, whether or not he has had experience, if a man will train faithfully during his four years at M. I. T. Os will find some event for him and make an athlete of him. This is no idle boast as the success of Cy Meagher and Norm McClintock, two of the outstanding examples, who never had a track shoe on before entering Technology, plainly illustrates; there are many other lesser lights who developed ability through perseverance. College transfers, eligible or not, are welcome at the track house and will receive as much attention as the Varsity men.

Within two weeks actual competition will start, for the first handicap meet will probably be held on Oct. 15, and from then on there will be something doing "from one until eleven" and then some. Handicap meets will be held every Saturday; toward the last of October comes the opening cross country meet when Holy Cross and M. I. T. battle over the hills of Franklin Field; and on November fourth, about a month away, Field Day will be held.

Last year interest in the Field Day relay teams was great and twenty-five men practised regularly for each team. Oscar expects even more out this year and wants it understood that a fellow doesn't have to be a world-beater to make the team. It is the desire of those interested in athletics at Technology to get as many men as possible into competition and the twelve-man relay team gives an excellent opportunity to the ordinary fellow to enjoy the thrill of a race.

Freshman have shown a gratifying interest in track this year and some of them are destined to be real stars, possibly to equal the achievements of George Leness and Hank Steinbrenner. A number of good men, some of them with good high and prep school records, have been observed on the track. Among the men practicing regularly are Robert Leadbetter, Charles Broder, Howland Parker, Seymour Northrop, William Hallahan, Richard Baltzer, and Charles Crawford.

Soccer Team Will Open Season With Strong N.U. Squad

Six Veterans And Many New Players Report At First Practice

With the first game scheduled for Oct. 15, Technology's soccer team is rapidly being whipped into shape by Coach Welch, who is Secretary of the United States Referees' Association for soccer. More interest is being shown in soccer this year than ever before.

Prospects for this year's team look bright. Many veterans are back, headed by Capt. Sparre, the able goal guard of last year. The other veterans are: Ventura, inside right, McDowell, fullback, Sacco, center forward, Sherabatte, inside left, and Bill Kline, center half.

There are a large number of new men out this year, many having had previous experience in soccer. Foruck is probably the most promising of the new men out. Many freshmen have turned out but Coach Welch says that he can use still more. He believes that the team has a wonderful spirit

FROSH REAL THREAT ON FOOTBALL FIELD

Making a rapid start toward the organizing of a promising team about 20 frosh are turning out every afternoon for practice with Frank Silva, the new coach. With the number of candidates gradually increasing, coach Silva already sees prospects of a smooth running outfit in his squad.

Coaching a Technology football team for the first time, Silva should certainly make the youngsters into a snappy team if he has as much success as with last spring's Beavers. He hopes to work up as good a scoring aggregation as he did last fall with the boys at Masee Prep. The Masee team won easily the Prep school championship from St. Johns. Last year's frosh were walloped by St. Johns, so if Silva succeeds the Sophs will have to do some stepping.

Playing football regularly himself, the new coach's main axiom seems to be that good condition means games won. Working on this system Friday afternoon saw the men going through preliminary work and winding up with a good old "monkey drill."

In starting the practice Silva put the men through a pretty set of formation starts. From the way the backfield lined up it looks as though the team plans to stick to the huddle system. Some of the men showed considerable skill and ability in the handling

of loose balls. From all appearances the squad seems made up of fairly experienced men.

Plans are settled upon as to practice hours. The men are turning out every afternoon except Saturdays for instruction. Today will probably see the men tackling the dummy and working team plays. Although no definite organization has yet been made, the coach hopes to start scrimmage work this week.

Although this same lack of organization is considerable of a handicap, the coach is confident enough of his material so that the first game of the season has already been scheduled. In the short time of about two weeks the team is expected to be ready to play. If all plans go well the team will open on Saturday, Oct. 15, by tackling the slightly more experienced team from New Bedford Vocational High.

FRESHMAN CREW MANAGER

More freshmen are need for crew managerial competition. Any freshman who is interested in this branch of the sport, report to Manager Thomas at the boathouse, at 5 o'clock this afternoon.

FRESHMAN COXSWAIN

Any freshman, under 125 lbs., who is interested in the position of coxswain on the freshman crew, should report at the boathouse any afternoon this week.

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FROSH MATERIAL IN RELAY FORMIDABLE

Large Number of Experienced Track Men on Squad

After a week of preliminary work the Sophomore and freshman candidates for the field day relay teams will get started on some real work this week. There has been a fairly large number of men working out but more are expected to report this week. Thus far the freshman have been showing more enthusiasm than the Sophs and although it is hard to predict at the present the outcome of the relay race on field day a real contest is assured, if the previous records of the new men count for anything.

Several of the frosh have had experience on prep school teams and under the coaching of Oscar Hedlund should develop into very creditable performers on the track. Leadbetter, Broder, and Haskell are among the more promising new men. Other frosh candidates who have been practicing with the relay men are, Dodge, Danforth, Kuhnle, Sullivan, Soden, Moody, and Prindle.

Ladd, last year's frosh track captain, will be one of the Sophs mainstays. Cohen, Edlund and Jandris are also veteran material for the Sophomore team. That should help them to down the yearlings on Field Day.

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LOEW'S STATE

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Technology Soccer Schedule For 1927

- Oct. 15—Northeastern at North-Northeastern.
- Oct. 22—Worcester at Worcester.
- Oct. 26—Bradford Durfel at Tech Field.
- Oct. 29—Clark at Worcester.
- Nov. 5—Springfield at Tech Field.
- Nov. 15—Harvard at Tech Field.
- Nov. 19—New Hampshire at Durham.
- Nov. 23—West Point at West Point.

YEARLING OARSMEN HAVE LARGE SQUAD

Outnumber Upperclassmen At Boathouse—Rivalry In Soph Ranks

Field Day enthusiasm is at a high pitch at the boat house, if the number of freshmen and Sophomores that worked out over the week end is any sort of indication. Not only are the lower classes turning out, but candidates for positions in the Varsity shells are showing much more spirit than formerly.

At the present time the yearlings far outnumber the members of any other one class that is training at the boat house. On Thursday evening eighty of them took positions in the training barge. As the latter is only sixteen oared, it was necessary to make five trips along the river to accommodate the entire group. In addition to working out on the barge the frosh also went through a workout on the rowing machines.

Experienced crews such as the Varsity, Jayvees, and 150's were of course sent out on the shells. It would appear that Captain Malmquist's little talk at the mass meeting, namely that of giving preference in the spring to those men who trained diligently in the fall, is already having its effect. If only this spirit of rivalry will keep up the Cardinal and Gray should have a banner year on the water.

Sophomores are having a battle among themselves to determine which crew will race the yearlings on Field Day. The Sophomore 150's have the jump on the regular crew and are displaying far better teamwork. It will take some strenuous working on the part of the regulars to best their class mates, but there is one thing certain, a really capable crew will wear the Sophomore numerals on Field Day.

WRESTLING MANAGER COMPETITION

Sophomore and freshmen candidates for wrestling manager report to, or leave notice on wrestling desk in the A. A. office, Walker, any afternoon.

TECHNOLOGY BAND IS BEING FORMED FROM ROTC CADETS

\$5000 Worth of Instruments Given New Organization By Government

40 ENROLLED IN BIG BAND

Technology's R. O. T. C. battalion will march to martial music in the near future, for a 30-piece military band is being organized among the undergraduates taking military science and will soon be ready to play at the tri-weekly drills, at athletic meets and wherever the services of a band are needed.

The United States Government has supplied \$5000 worth of instruments, sufficient to fully equip a 30-piece band, together with the regulation military music. Last year's bugle corps will be incorporated with the band, bringing the total membership to about 40. It is hoped that eventually Technology will have a 60-piece band, which though under the direction of the Department of Military Science, will be an Institute band, ready to play on Field Days, at athletic meets, at concerts or wherever a band is needed, as well as at the tri-weekly freshman drills.

Enrollment in the band is nearly complete to date. Membership includes a few freshmen, with a majority of upperclassmen, all of whom have had some previous band experience. The band is being organized by Cadet Capt. Harold D. Morrill '28, who served on a band in the World War, and will be under the instruction of Warrant Officer Warren, band leader of the 101st Engineers, Massachusetts National Guard. Student members of the band will be exempted from the regular infantry drill, but will take band drill and regular rehearsals in the Cambridge Armory instead.

It is expected to have the band sufficiently well trained to be able to play on Field Day. Though Technology at other times has had various impromptu bands, this is the first attempt that has been made at organizing a representative Technology band.

EDITOR OF FORUM TO SPEAK IN BOSTON

Will Answer Question, "Are Americans Intolerant?"

The Back Bay Students' Committee with students from 20 institutions organized to promote a better thinking about religion has announced Harry Goddard Leach, Editor of the "Forum," as its first speaker at the monthly conference for students only at the Church of the Messiah, Gainsborough street, on Sunday afternoon, Oct. 9, at 4 o'clock.

Dr. Leach will attempt to answer the question "Are Americans Intolerant?" This is the first appearance of the Editor of the "Forum" before Boston students, and his treatment of this subject will call forth much discussion in the open forum that will follow his address.

The other speakers for the season are:

Nov. 13th—Whiting Williams, "Has the Laboring Man Any Use for Religion?"

Dec. 11th—Bishop John T. Dallas, "The Vitality of a Religious Experience."

Jan. 8th—Dr. Alfred Worcester, Oliver Professor of Hygiene at Harvard University, "Fundamental Attitude Toward the Sex Problem."

Feb. 12th—Leslie Glen, Secretary of the Episcopal Students' Movement, "Religion an Asset to Students."

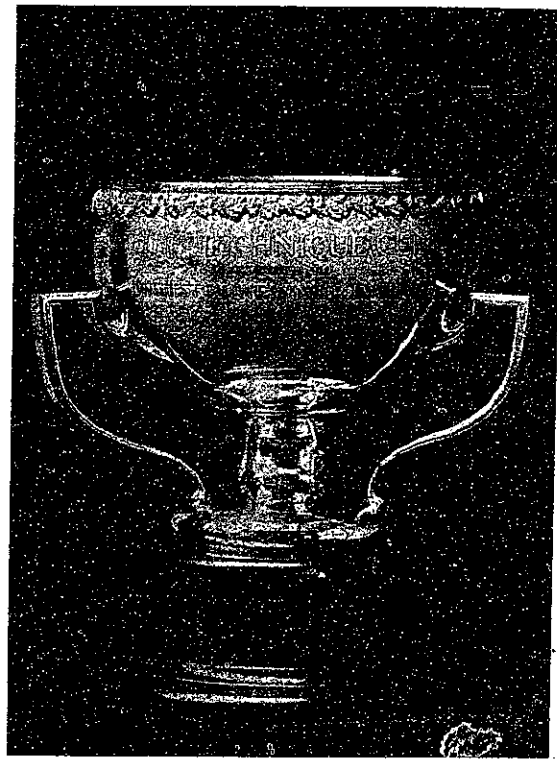
March 11th—Henry Pitt Van Dusen, author of "In Quest of Life's Meaning," "Hints on a Working Philosophy of Life."

April 8th—Kirkley F. Mather, Professor of Geology, Harvard University, "Are Men Mere Machines?"

MENORAH SOCIETY TO HEAR LYON OF GLOBE

Mr. Benjamin Lyon of the staff of the Boston Globe will speak at the first meeting of the year of the Technology Menorah Society, which will be held in North Hall, Walker, tomorrow night at 8 o'clock, according to William I. Gorankle '28, president of the society. Mr. Lyon has not announced his subject. Smokes will be provided and refreshments will be served. All interested are invited.

Swartz Medal and Technique Cup That Will Be Awarded At All-Technology Smoker Friday Night



Top: Swartz Medal; Below: Technique Cup

MAGIC MOVIE TONE SMOKER FEATURE

Swartz Medal to be Presented To Best Athletic Manager Of Past Year

(Continued from page 1) ing the Institute and who garnered the greatest number of points in the past season, will be presented. The Swartz Medal, which is annually presented to the man who is adjudged as the best athletic manager for the past year, will also be presented at the Smoker.

It is never known who is to get these awards until they are presented.

The Cabot Medals, which are given to the five men who show the most improvement in their physical condition between the time they enter the Institute and the termination of their freshman year, will be presented at the same time as the other awards. Immediately following the dinner there will be three speakers to describe their various activities to the new men. One man will speak of the publications, one of athletics, and the third of Tech Show and the Musical Clubs.

At 7:30 all of the undergraduates will be admitted. Every man will be given a raffle ticket as he enters. This year the committee has been successful in securing more prizes for the raffle than ever before. The Technology cheers and songs will be led by Orville B. Dennison '11 and Steven Townsend, instructor in choral singing at the Institute.

Notices and Announcements

OFFICIAL NOTICE

GS-48. Appreciation of Music will not be given in the first term this year. It will be offered in the second term.

UNDERGRADUATE

Coaches for Boys' Teams

Two men are wanted to coach Boys' teams, one to coach boxing and one to coach basketball, each requiring about two hours per week. Apply at T. C. A.

PHYSICAL EXAMINATIONS

Students are requested to sign up for physical examination as soon as possible.

TENNIS MANAGER COMPETITION

Freshman and Sophomore candidates who desire to enter competition for the position of Tennis Manager should report to the A. A. office any afternoon after 4 o'clock.

A CHANCE FOR JUNIORS

Technique offers a two-weeks' competition for Juniors, starting today, for the positions of "Features Editor" and "Photographic Manager." Both are important positions and lead to a Senior Board position next year.

All men interested report at the office, 308 Walker.

TECHNIQUE CUTS

Anyone desiring to obtain their cut used in Technique, please call at the office before Wednesday, Oct. 5.

GLEE CLUB

Glee Club try-outs will be held tonight, Oct. 3, in room 10-275 between the hours of 5 and 8 o'clock. There are openings for men in all parts.

There are numerous openings in the management of the Musical Clubs for Sophomores and Juniors. All those interested can obtain further information by inquiring at Room 310, Walker Memorial, any afternoon at 5 o'clock.

FOOTBALL EQUIPMENT

All members of last year's Sophomore and Junior football teams who are willing to sell or lend their football equipment are requested to call John Byrne at University 7077.

RADIO SOCIETY

There will be a reorganization meeting of the Radio Society in Room 10-200 today at 4 o'clock. New officers will be elected. Everybody, whether a member of the society or not, is invited.

TECHNIQUE COMPETITION

A meeting will be held in the Technique office for all Juniors interested in the competition Monday, Oct. 3, at 5 p. m. All men desiring to enter this competition be sure to report at the office at this time.

MENORAH SOCIETY

All interested are invited to attend the first Menorah meeting of the year in North Hall, Walker, tomorrow night at 8 o'clock. Refreshments will be served.

Coeds Are Hope of Liberal Education In Colleges, Says Professor in Article

College Men Are Merely Types — Coeds are Individualistic Is His Opinion

A professor of a well known college, who writes occasionally for some of the better magazines, has recently made a statement, that while being rather broad, is none the less truthful. His assertion that college graduates are all patterned after a certain type, has already been voiced, but his opinion on the matter is of interest. To quote him:

"Democracy has swamped the colleges and, under its impetus college men tend more and more to reverse evolution and to develop from heterogeneity to homogeneity. They tend to become a type, and our civilization providing the mold, the type is that of the salesman. The attributes that distinguish it are shrewdness, craftiness, alertness, high-pressure ability and, above all, efficiency. There seems to me little reason to believe that the tendency will change in any way. I have not, indeed, any reason to believe that for the Republic any change is desirable. The mass-production of salesmen, we may be sure, will not and cannot stop. But, at least, there is one force that moves counter to this one. The co-eds, in general, develop into individuals; and, in general, they oppose and dissent from the trend of college education. I do not pretend to say whether their opposition is conscious or merely instinctive, nor can I hazard any prophecy about its possible influence on our national life. But if, here after, our colleges are to preserve any of the spirit that was lovely and admirable in their past, I am disposed to believe that the co-eds, those irresponsible and over-dressed young nitwits, will save it unassisted."

"The college man lives up to the type that has been created for him by the humorous magazines in that he seems perpetually bored. His is not the boredom of cynicism, not even of the callous cynicism of the cartoons, but the boredom that is usually called Philistine. Show him that the principles of Mr. Blank's course in "Business Psychology" will enable him hereafter to close a sale, and he will cast off

his lethargy and dig; but through courses in the Greek thought of the Fourth Century or the social institutions of Medieval Spain he wanders somnolent and pathetic, a weary, grumbling low-brow who has been cruelly betrayed into registering for what rumor held to be a snap course. The excitement and the ecstasies of the intellectual life are not for him. He has no hunger for those impractical, breathless, dizzying wisdoms that add stature to the soul. But the co-eds, whether self-consciously or not, are really interested in living by the higher centers of the brain. Education retains, for them, something of its old adventurousness; and, for them, there is still some delight to be had in the pursuit of intellectual ends which can never, by an conceivable means, be turned into commissions. The sex is proverbially curious—and curiosity is no poor synonym for intelligence. And no doubt another proverbial attribute, stubbornness, is responsible for the other virtue that remains to be dealt with. Skepticism seems to be indispensable for education, but the college man neither possesses it nor respects its possession in others. He relies on the commercial honesty of the institution that accepts his tuition: surely no professor would accept money for saying something that was not true. A textbook cannot lie, and a professor will not.

"Logic, evidence, experimentation, and verification are all very well, no doubt, but an uneconomic waste of time. In a pinch, I would undertake to convince a class of men of nearly anything, merely by repeating many times that it was so because I said it was so. One does not teach women in that way. One painstakingly examines all the facts, goes over the evidence, caulk the seams of one's logic, and in every way prepares oneself for intelligent opposition. It may be the devilish obstinacy of the sex. No doubt, it is, but also, whatever its place in the ultimate synthesis of wisdom, it is the beginning of knowledge."

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